

# IT: Web Programming and Development

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## Career Focus:

- Prepared for immediate employment, advanced certification, and further education.

## About the program:

- Develop interactive games and virtual reality environments using advanced coding software.
- Use innovative tools to create enhanced websites and databases while applying cyber security protocols to protect against digital criminal activity.
- Explore, design, build, and debug in various programming languages.

## Certification Opportunities:

- Microsoft Technology Associates - JAVA
- Microsoft Technology Associates - HTML & CSS
- .net Certification
- Microsoft Technology Associates - Python
- Microsoft Technology Associates - Database Fundamentals

## Extra- Curricular Opportunities:

- High School eSports Team: Overwatch, League of Legends, CS:GO, Hearthstone, Rocket League, Rainbow Six: Siege,, Smash Ultimate, Fortnite, Minecraft, Madden '21, and NBA 2k21, Call of Duty: Modern Warfare

## Courses:

Course name	HCC Credit	WCSD Credit	WCSD Course Number
Intro to Programming Logic (Python)	3	2	COM226
Introduction to Web Devel. (HTML/CSS)	3	1	COM227
Database Design and Mgt.(mySQL)	4	1	COM228
Web Layouts	3	1	COM414
Game Development (Unreal & Unity) *Intro to Programming Logic required to take Game Development	3	1	COM413

## Potential Course Sequence:

Sophomore	<ul style="list-style-type: none"> <li>● Intro to Programming Logic</li> <li>● Web Layout</li> <li>● AP Computer Science Principles (if offered)</li> </ul>
Junior	<ul style="list-style-type: none"> <li>● Introduction to Web Development</li> <li>● Game Development I</li> </ul>
Senior	<ul style="list-style-type: none"> <li>● PHP Programming</li> <li>● Server Side Programming</li> <li>● Database Design and Management</li> </ul>

